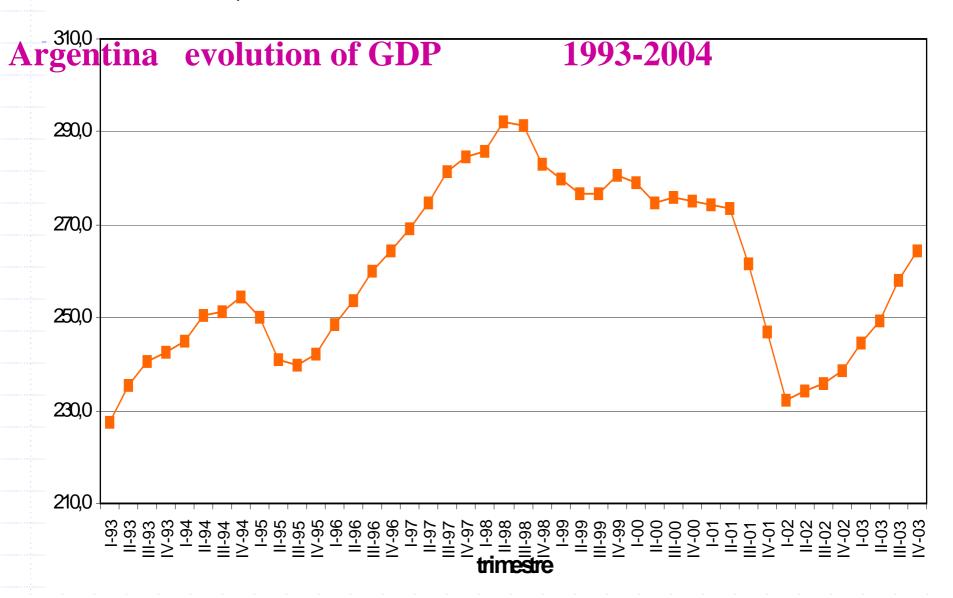


Argentina	1995	1998	1999	2003	
Surface area (sq km)	2.8 mill				
Population, total	34.8 mill	36.1 mill	36.6 mill	37.5 million	
Population density (people per sq km)	12.7	13.2	13.4		
Population growth (annual %)	1.3	1.3	1.2		
Life expectancy at birth, total (years)	72.7		••		
Mortality rate, infant (per 1,000 live births)	22.2	19.1	17.6		
Urban population (% of total)	87.5	87.9	88.1		
Illiteracy rate, adult male (% of males 15+)	3.6	3.3	3.2		

Economy Argentina	199	5 19	98 1999	2003
GDP at market prices (current US\$)	258.1 billion	299.1 billion	283.7 bill	100 bill
GDP growth (annual %)	-2.8	3.9	-3.4	7
GNI, Atlas method (current US\$)	256.5 billion	290.1 billion	276.9 bill	
GNI per capita, Atlas method (current US\$)	7,380.0	8,030	7,570	2,800
Exports of goods and services (% of GDP)	9.6	10.4	9.8	15
Imports of goods and services (% of GDP)	10.1	12.9	11.5	8
Overall budget deficit, including grants (% of GDP)	-1.2	-1.5	-2.9	

Exclución del PIBen miles de millones de pesos de 1993

miles de millones de \$

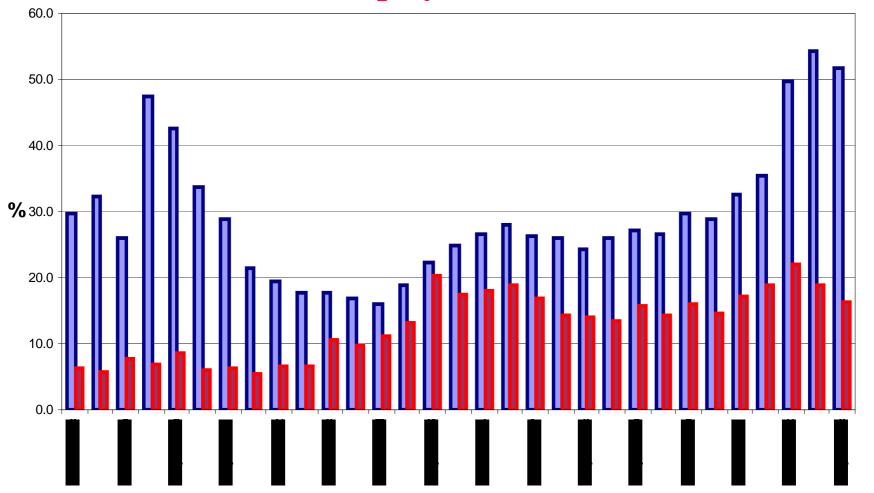


Evolución de la pobreza y la desocupación en el GBA desde 1988 en adelante

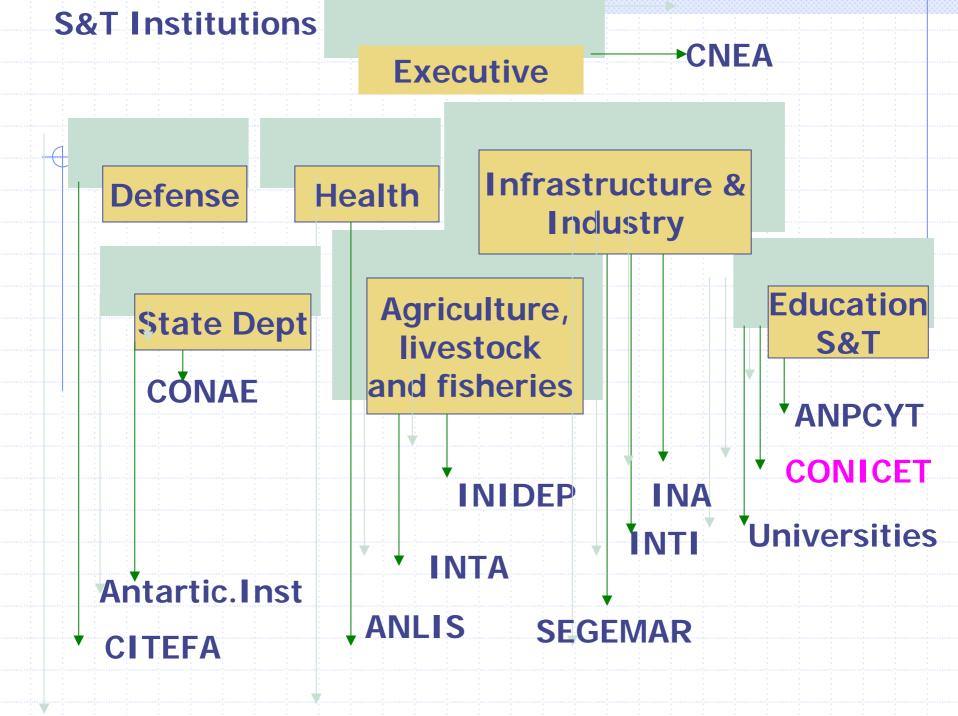
Persons bellow poverty levels ■ Personas bajo la línea de pobreza

Persons unemployed

Tasa de desocupación



fecha de relevamiento



SEGEMAR Geological and Mining Survey of Argentina

Main programs:

Regional mapping

Airborne geophysics

Regional geochemistry

Metallogenic mapping

Hazards mapping

Environmental base-line maps

Technological consultancy on quarries or calculation of reserves,

Geological and Geotechnical studies of mineral deposits (in and off-mine site tests, projects)

Investment evaluation through project development and operation



NATIONAL NATIONAL ADMINISTRATION OF HEALTH LABORATORIES AND INSTITUTES ES



National Institute of **Infectious Illnesses**

National Institute of Elaboration of Biological Products

National Institute of **Human Viral Illnesses**

National Institute of Parasitology

National Institute of **Epidemiology**

National Institute of Respiratory Illnesses

National Center for Nutritional Research

National Center for Medical Genetics

National Center for the Diagnosis and Research of

Endemics and Epidemics

Laboratories Network of Argentina

National Center of Quality Control of Biological Products



1 The Only R&D joint organization in the Defense Area

Armed Forces Institute for Scientific and Technical Research

33.000 m²
Facilities, Labs and Workshops

536 Staff



8 International agreements (participation and support)

18 Projects supported by the Armed Forces

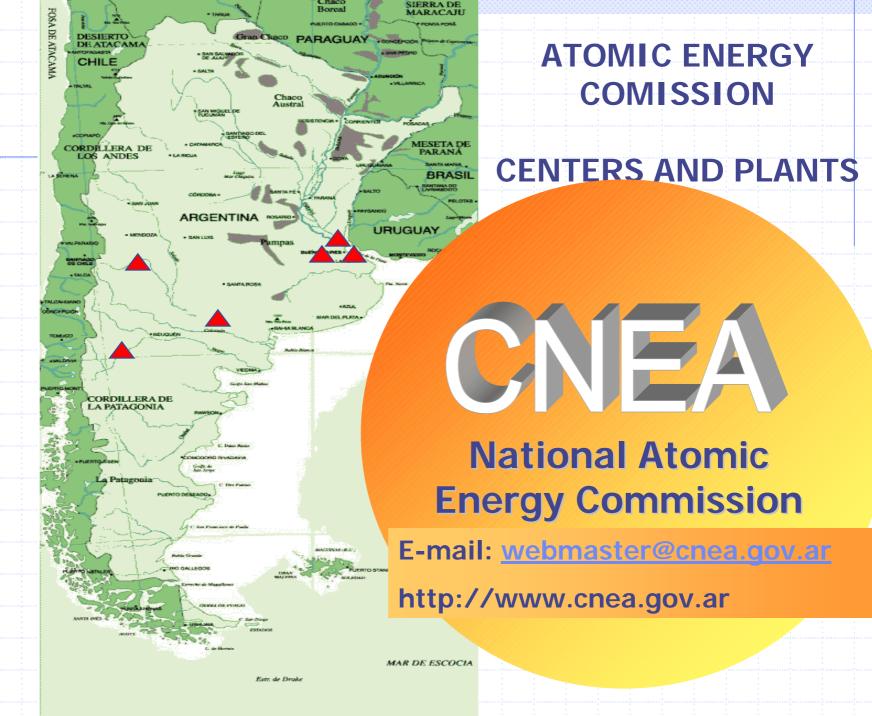
20 Agreements with National Organizations

376 Scientists and technicians in the Scientific Staff Regime

26 Projects supported by other Organizations

23 Technological and Scientific facilities

CITEFA Research Fields: Artillery Rockets and Missiles Control and Guidance Applied Chemistry Applied Electronics Microelectronics Night vision; sensors **Telemetry Antennas** Lasers **Environmental testing Material Sciences Corrosion Toxicology Plague Control** CITEFA participates in National and **International Control Organizations**





Constituyentes Atomic Center

Ezeiza Atomic Center

- Materials Science
- Nuclear Fuels
- Physics
- Chemistry
- Radiobiology
- Non Destructive Testing
- Heavy Ion Accelerator: 20 MV

RA 3 Reactor 5 MW –10 MW

Radioisotopes Production

Agricultural applications

Food irradiation

Hot Cells

Waste Management

Personnel: 990

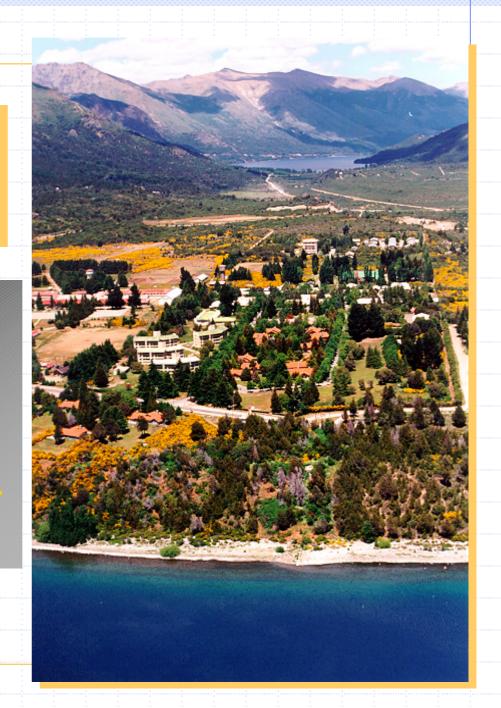
Personnel: 440



Bariloche Atomic Center

- Balseiro Institute
- Physics
- Nuclear Engineering
- Materials Science
- RA 6 Research Reactor (0.5 MW)

Personnel: 430





Related Companies

CNEA share

INVAP

Reactors for reseach & Isotopes production

Nuclear Medicine equipment

Radioisotopes production plants

Aerospace

NA-SA

Nuclear Power Generation

Nuclear contribution to electricity production: 8 % of total

33 % CNEA

CONUAR

Fuel elements fabrication

ENSI

Heavy Water production

49 % CNEA

DIOXITEK

UO₂ Production

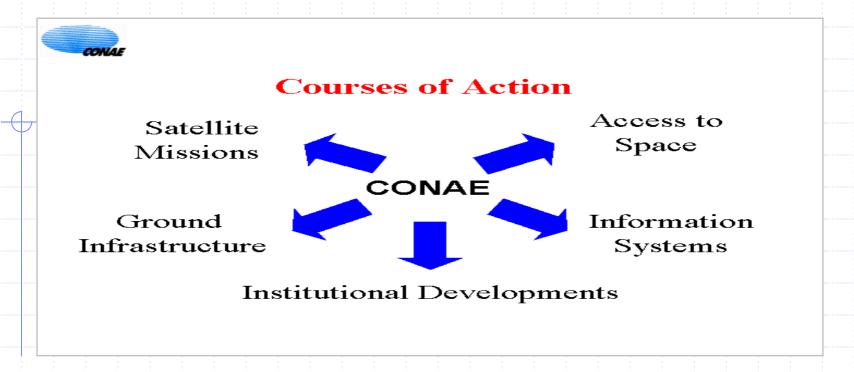
99 %

CNEA

FUESMEN

Nuclear Medicine Center

NATIONAL COMISSION ON SPACE ACTIVITIES



Space Information Cycles for:

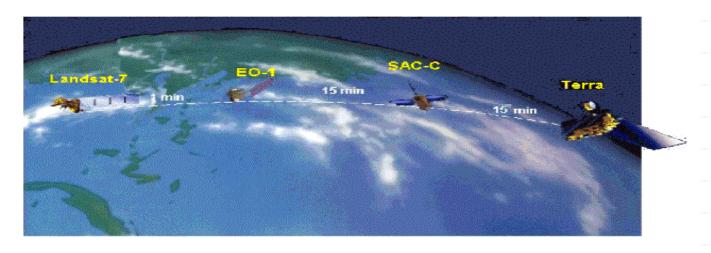
- Agriculture, Fishery and Forestry
- •Oceanography, Hydrology and Climate. Emergency Manag.
- •Environmental Studies and Natural Resources.
- •Geology, Cartography and Mining.

The "Morning Constellation" formed by the American satellites Landsat 7, Terra, EO1 and the Argentine satellite SAC-C.

Detection of a single piece of land "almost" simultaneously with all on board instruments



NASA-CONAE Constellation, EOS-AM

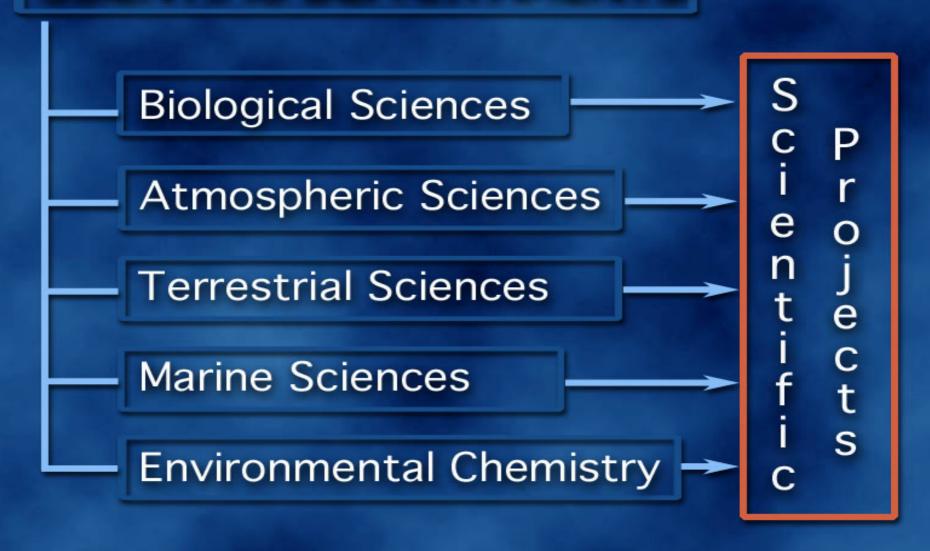


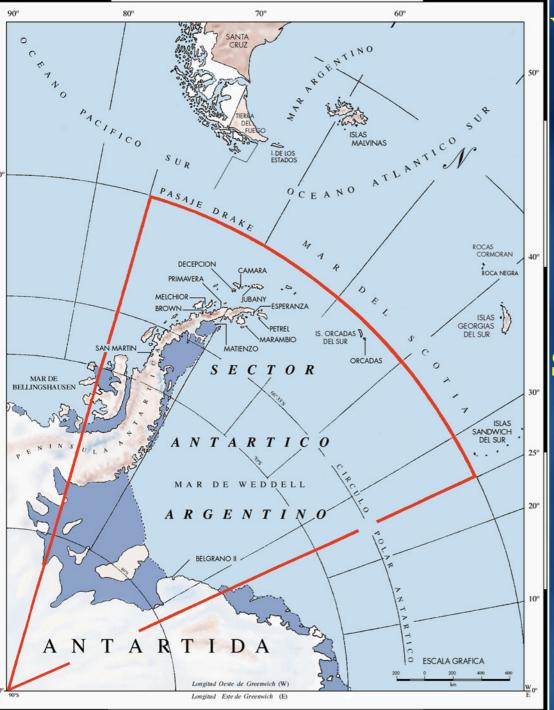
The SIASGE constellation (Italy – Argentine Satellites System for Emergency Management): four Italian SAR (Radar) satellites in X-band, a constellation of two Argentine SAR satellites in L-band, and a constellation of two optical satellites.

Antartic National Institute - Foreing Affairs Ministry



SCIENTIFIC DEPARTAMENTS





Year Round Stations

Jubany (lat. 62° 14' S - long. 58° 40' W)

Orcadas (lat. 60° 44' S - long. 44° 44' W)

Esperanza (lat. 63° 24' S - long. 57° 00' W)

Marambio (lat. 64° 14' S - long. 56° 38' W)

San Martín (lat. 68° 08' S - long. 67° 06' W)

Belgrano II (lat. 77° 52' S - long. 34° 37' W)

Summer Stations

Brown (lat. 64° 53' S - long. 62° 53' W)

Primavera (lat. 64° 09' S - long. 60° 58' W)

Decepción (lat. 62° 59' S - long. 60° 41' W)

Melchior (lat. 64° 20' S - long. 62° 59' W)

Matienzo (lat. 64° 59' S - long. 60° 07' W)

Cámara (lat. 62° 36' S - long. 59° 56' W)

Petrel (lat. 63° 28' S - long. 56° 12' W)

INA National Water Institute

MAIN ACTIVITIES

- → High Waters, Floods and Flash Floods
- Erosion and Sedimentation
- Hydraulics of Large Works
- → Fluvial, Maritime and Industrial Hydraulics
- Surface and Groundwater Hydrology
- Urban Hydrology
- Irrigation and Drainage
- Hydrological Warning Systems
- ✓ Water Economics, Law and Management
- Water Quality and Pollution
- Water Quality in Receiving Bodies and Streams
- Water and Wastewater Treatment
- Environmental Impact Assessment of Hydraulic and Infrastructure Works
- Water Resources Data Base



INIDEP

NATIONAL FISHERIES RESEARCH AND DEVELOPMENT INSTITUTE

- **♦** 153 researchers, fellowship holders and technicians
- 13 support technicians
- 41 administrative fellows
- **♦ 64 research vessel** crewmen



Marine Environment, Fishing Gear selectivity and evaluation, Fishery products improvement, Fisheries economics, Satellite Technology for Fisheries, Fishery Information Integrated System.



Main activities



- 1. Research and Development
- 2.- Rural Development, Technology diffusion and transfer (aimed at an integral development of agricultural product chains)
- 3.- Technical assistance to farmers and firms (training and assistance aimed at the assurance of quality and safety of products and processes)

Disciplinary Research programs:

Animal health

Crop protection and quality

Biotechnology

Environmental management



Cereals

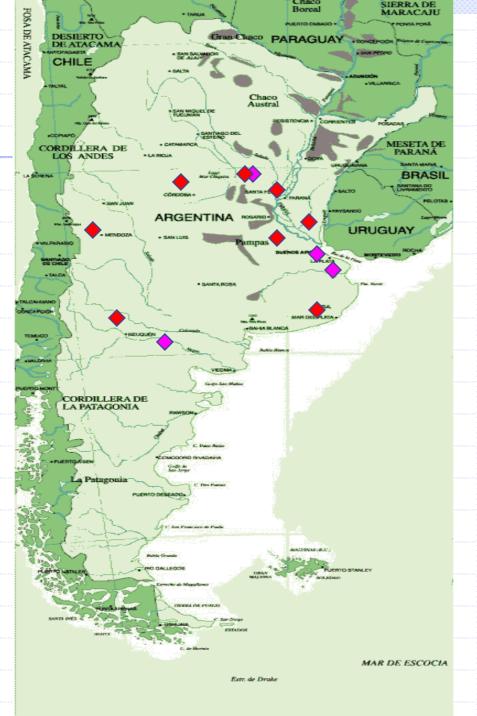
Oilseeds

Beef and dairy products

Vegetables and Fruits

Forestry products





National Institute of Industrial Technology

INTI

Secretariat of Industry, Commerce and Mining Ministry of Production Intl.Coop.
Organizations
Universities
Const.Tech.Pole
Tech. Institutes
Gov. Agencies





Private firms

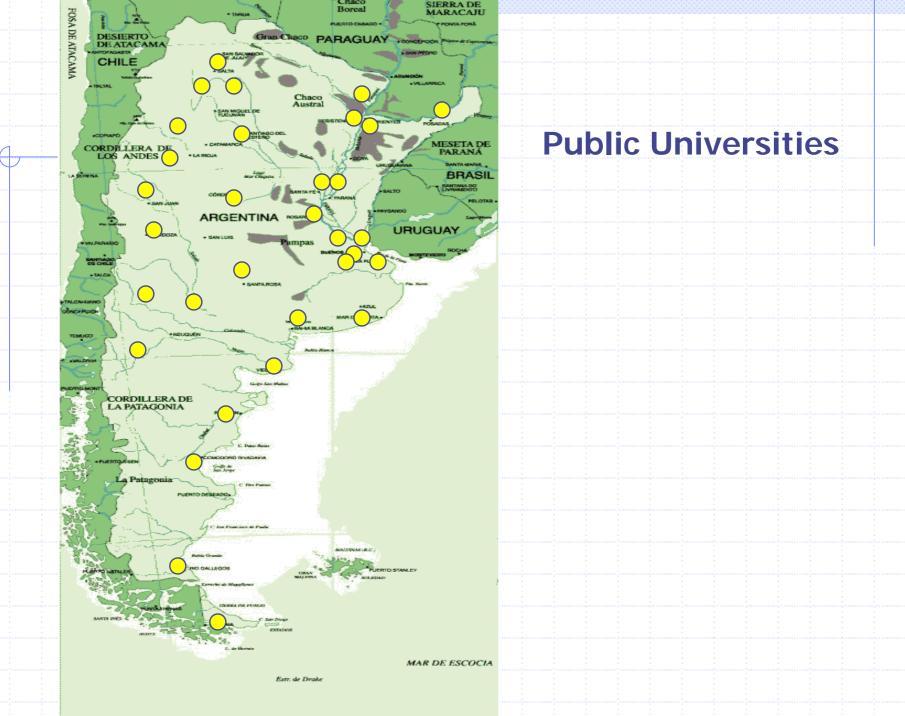
Quality Productivity Markets

Competitiveness Employment

Electronics and Informatics, Chemistry and Petrochemistry

Metrology, Quality, Energy and Environment Food

Materials and Industrial Processes, Construction and Infrastructure



National Public Universities

Autonomous: free election of authorities and administration of assigned resources

Free admission for students

Personnel: 140.000 Professors teachers, instructors

16.000 to 20.000 full time positions, responsible for a considerable contribution to S&T output

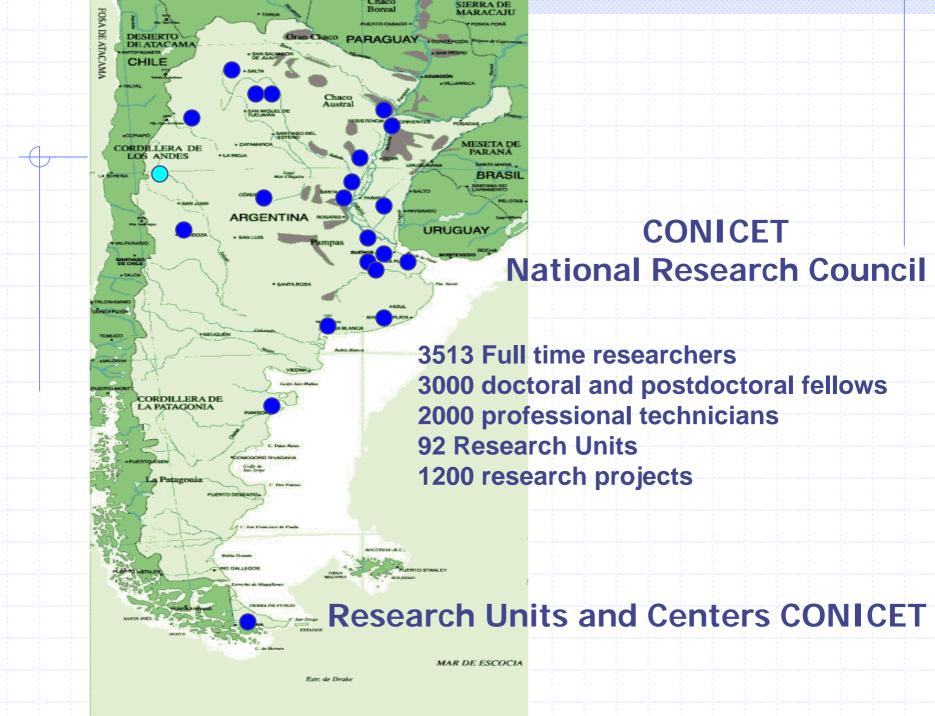
500 new PhD. Annually

All Postgraduates programs under National Evaluation

Undergraduate Programs: gradual evaluation beginning with

professions of social impact

Validation of degrees: implemented gradually



DISTRIBUTION OF RESEARCHERS BY DISCIPLINARY AREAS

	Amount	%
Biological and Health Sc. Medicine, Biology, Veterinary, Biochemistry	1209	35
Social Sc. and Humanities Law, Philology, Linguistic, Philosophy, Psychology and Education History, Anthropology y Geography, Sociology y Demography, Economy	694	20
Physics, Math and Natural Sc. Earth Sc., Mathematics Physics and Astronomy, Chemistry	1080	30
Agronomical Sc. Engineering and Materials Agronomical Sc, Engineering, Architecture	530	15
Total	3513	100

Research fellowships Doctoral - four year term, efficiency in thesis: 75 % Post-doct —two year

Type	Co-funding	Number
Doctoral in Argentina		2300
Doctoral abroad		80
(alternate residence)		
Doctoral	Private firms	10
Post-doctoral	Private firms	30
Doctoral	Universities and S &	100
	T Organizations	
Post-doctoral		400
TOTAL Year 2004		2920

Scientific and technological Researchers

Productivity Index 1993-98

P	uk	ica	tio	ns/	\mathbf{V}	ear	/r	es	ea	rc	he	r
					•							

Total of researchers of Argentina	0.13 (**)
Res. not members of CONICET	0.05
Researchers of CONICET	0.64 (***)
Researchers in CONICET	0.84 (***)
Research Units	

Source: (**) Red Iberoamericana de Indicadores de Ciencia y Tecnologia (RICYT-CYTED)(***) CAICyT-CONICET from international databases.

CONICET SH	IARE	
	CONICET	Other Institutions of research
Researchers	24 %	76 %
Fellowships	39 %	61 %
Budget	23 %	77%
Scientific production (*)	68 % (**)	32 %

^(*) Peer reviewed journals in international databases

(**) 45 % of this production is shared with other institutions, mainly the universities, due to the double affiliation of researchers

Examples of technological success of CONICET in the biotechnology field:

Milk enriched with lactobacillus:
Treatment of children's intestinal diseases

Developed and patented with SANCOR inc.

Transgenic cows: Production of human Growth Hormone in milk Developed with BIOSIDUS inc.

Recombinant human insuline Developed and patented with BETA inc.

Funding of S&T projects in Argentina
National S&T Funding Agency
Co-financed with IADBank

FONCYT: 500 non oriented R. projects 20.000 U\$/year 120 oriented R. projects 50.000 U\$/year scientific meetings and publications

FONTAR: Aprox. 200 innovation projects 50-200.000 U\$

These firms "overcame" the crisis – the tax
revenue was higher than the cost of the program

CONICET

1200 non oriented R . projects 3.000 U\$ / year plus the funding of associated fellowships Scientific meetings and publications

DIFFERENT LEVELS in INTERNATIONAL COOPERATION

- 1. Peer to peer collaboration: academic freedom "umbrella" (AcFr)
- 2.- Institution to institution collaboration: AcFr, Focused projects (FcPj) and shared strategies (ShStg)
- **3.- Government . to Gov. collaboration** : FcPj, ShStg, Common problems (Com.Probl)

The institutions or Governments must know the researchers values to influence "their" agenda

Incentives and prestige recognition of new types of contributions must be analysed at the institutional level

- 3.-Institution to institution collaboration:
- 4.- Government . to Gov. collaboration :

Institutions and or Governments must articulate their proposed agendas with:

- Strengths of their research community
- Weaknesses capable of being overcome (profit/cost)
- Opportunities for intl. recognition (intl. research trends)

Some examples

- •Argentine-Brazilian Center for Biotechnology CABBIO :
 Over 120 short courses for 3500 scientists in 12 years
- •NASA-CONAE collaboration: constellation of sattelites
- •Argentina-Brasil close negotiation for subscription to electronic journal databases.
- •Bilateral establishment of priorities with NSF and Brazil

 (initially planned for Workshopsextended for research?)
- •Scielo Website for Regional electronic Journals (XML)

5.- Multilateral collaboration: Global Future Trends in research, new standards and values, "Big Science" Projects.

The framework for specific common agendas is more restricted

•"Big science" projects

Gemini Large Scale Telescope

Pierre Auger Laboratory for detection of cosmic radiation

Joint initiatives in the technological area trough the EU Framework Program (IV, V and VI)

- •Few regional initiatives in the Americas for collaboration in technology
- •Lack of regional approach to common problems: global climatic change, biodiversity, pollution, migrations, health, among others.
 - •New standards for better research management

Scienti Network: **Ibero-american** system for publishing and submission of CVs in database format, common definition of evaluation parameters and indicators for individual and institutional performance.

